

Rec'd PCT/PTO 21 FEB 2006

**10/528423**

**RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/538,423  
Source: PCT  
Date Processed by STIC: 2/21/06

***ENTERED***



PCT

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/538,423**

DATE: 02/21/2006  
TIME: 12:55:10

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\02212006\J538423.raw

3 <110> APPLICANT: Majumder, Arunendra  
 4 Manoj, Majee  
 6 <120> TITLE OF INVENTION: A salt tolerant L-myo-inositol 1-phosphate synthase and the  
 process of  
 7 obtaining the same  
 9 <130> FILE REFERENCE: 4544-051674  
 11 <140> CURRENT APPLICATION NUMBER: US 10/538,423  
 12 <141> CURRENT FILING DATE: 2005-06-10  
 14 <150> PRIOR APPLICATION NUMBER: PCT/IN2003/000065  
 15 <151> PRIOR FILING DATE: 2003-03-21  
 17 <160> NUMBER OF SEQ ID NOS: 3  
 19 <170> SOFTWARE: MicrosoftWord 2003  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 1536  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Porteresia coarctata  
 26 <220> FEATURE:  
 28 <400> SEQUENCE: 1

29	atgttcatcg agagcttccg cgtggagagc ccgcgcgtgc ggtacggcgc ggcggagatc	60
31	gagtcggagt accggtaacga cactacggag ctggtgacag agagccacga cggcgccctcg	120
33	cgctgggtcg tccgccccaa gtccgtccag taccacttca ggaccagcac caccgtcccc	180
35	aagctcgggg tcatgctcg ggggtggggc ggcaacaacg gctcaacgct gacggctggg	240
37	gtcatcgcca gcagggaggg aatctcatgg gcgaccaagg acaaggtgca gcaagccaac	300
39	tactatggct cactcaccca ggcgtccacc atcagggttag gaagctacaa cggggaggag	360
41	atctacgcgc ctttcaagag cctcctgccc atggtaacc ctgatgacct tggatcgcc	420
43	ggctgggaca ttagcaacat gaacctggct gatgctatga ccagggccaa ggtgctggac	480
45	attgatctgc agaagcagct taggccttac atggagtctt ggtgcctctc cctggcatct	540
47	atgatcccga cttcatcgcc gctaaccagg gatcccgcgc gaacaatgtc atcaaggaa	600
49	ccaagaagga gcagatgggg cagatcatca aaggacatca gggagttcaa ggaaaataac	660
51	aaaatggaca aggccgtgg tttgtggact gcaaacactg aaaggatcaa caattgtctg	720
53	tgtttgggct taatgaccaa tggaaaacct tctgcgtctg tggacaggaa ccaggcggag	780
55	atatcgccat cgacattgtt ttgcattgc cttgcattcat tggagggtgt ccgttcaata	840
57	acgggagccc taaaaaaaaa atcttggcct ggaattgacg atcttgcatt taaaaaaaaa	900
58	ctgcctgatc cggggggatt aattaaaaaaaa agggcaaac caaaaaaaaa aaccggcttg	960
60	gttgcatttc tcatgggtgc tggataaaag cccacctcaa ttgcgttca caaccacttg	1020
62	gggaataatg atggcacgaa ctttctgcg ccgcacat tccgatccaa ggagatctcc	1080
64	aaaagcagcg tggtcgtatca catggctca agcaatgcta tcctctacga gcctggcgag	1140
66	catcctgatc atgttgcgt gattaagtat gtgcgtacg tcggagacag caagaggccc	1200
68	atggatgagt acacccatcaga gatcttcatg ggggttaaga acaccatcg gctgcacaac	1260
70	acctgcgagg actcgctct tgctgcacca atcattctt acctgggtct cctggccgag	1320
72	ctcagacta ggattcagct gaaaggcgag ggagaggaga aattccattc ttccatcca	1380
74	gtggctacca tcctgagcta cctcaccacag ggcggccctt ttcctcctgg cacaccatcg	1440
76	gtgaacgccc tggcgaagca gagggctatg ctcgagaaca tcatgagggc ctgcgttggg	1500
78	ctqccccctq aqacaacat qatcctqqaq tacaag	1536

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/538,423

DATE: 02/21/2006  
TIME: 12:55:10

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\02212006\J538423.raw

80 <210> SEQ ID NO: 2  
81 <211> LENGTH: 510  
82 <212> TYPE: PRT  
83 <213> ORGANISM: Oryza sativa  
85 <220> FEATURE:  
87 <400> SEQUENCE: 2  
89 Met Phe Ile Glu Ser Phe Arg Val Glu Ser Pro His Val Arg Tyr Gly  
90 1 5 10 15  
92 Ala Ala Glu Ile Glu Ser Asp Tyr Gln Tyr Asp Thr Thr Glu Leu Val  
93 20 25 30  
95 His Glu Ser His Asp Gly Ala Ser Arg Tyr Ile Val Arg Pro Lys Ser  
96 35 40 45  
98 Val Arg Tyr Asn Phe Arg Thr Thr Thr Val Pro Lys Leu Gly Val  
99 50 55 60  
101 Met Leu Val Gly Tyr Gly Asn Asn Gly Ser Thr Leu Thr Ala Gly  
102 65 70 75 80  
104 Val Ile Ala Asp Arg Glu Gly Ile Ser Trp Ala Thr Lys Asp Lys Val  
105 85 90 95  
107 Gln Gln Ala Asn Tyr Tyr Gly Ser Leu Thr Gln Ala Ser Thr Ile Arg  
108 100 105 110  
110 Val Gly Ser Tyr Asn Gly Glu Glu Ile Tyr Ala Pro Phe Lys Ser Leu  
111 115 120 125  
113 Leu Pro Met Val Asn Pro Asp Asp Leu Val Phe Gly Gly Trp Asp Ile  
114 130 135 140  
115 Ser Asn Met Asn Leu Ala Asp Ala Met Thr Arg Ala Lys Val Leu Asp  
116 145 150 155 160  
118 Ile Asp Leu Gln Lys Gln Leu Arg Pro Tyr Met Glu Ser Met Val Pro  
119 165 170 175  
121 Leu Pro Gly Ile Tyr Asp Pro Asp Val Ile Ala Ala Asn Gln Gly Ser  
122 180 185 190  
124 Arg Ala Asn Asn Val Ile Lys Gly Thr Lys Lys Glu Gln Met Glu Gln  
125 195 200 205  
127 Ile Ile Lys Asp Ile Arg Glu Phe Lys Glu Lys Ser Lys Val Asp Lys  
128 210 215 220  
130 Val Val Val Leu Trp Thr Ala Asn Thr Glu Arg Tyr Ser Asn Val Cys  
131 225 230 235 240  
133 Val Gly Leu Asn Asp Thr Met Glu Asn Leu Leu Ala Ser Val Asp Lys  
134 245 250 255  
136 Asn Glu Ala Glu Ile Ser Pro Ser Thr Leu Tyr Ala Ile Ala Cys Val  
137 260 265 270  
139 Met Glu Gly Ile Pro Phe Ile Asn Gly Ser Pro Gln Asn Thr Phe Val  
140 275 280 285  
142 Pro Gly Leu Ile Asp Leu Ala Ile Lys Asn Asn Cys Leu Ile Gly Gly  
143 290 295 300  
145 Asp Asp Phe Lys Ser Gly Gln Thr Lys Met Lys Ser Val Leu Val Asp  
146 305 310 315 320  
148 Phe Leu Val Gly Ala Gly Ile Lys Pro Thr Ser Ile Val Ser Tyr Asn  
149 325 330 335  
151 His Leu Gly Asn Asp Gly Met Asn Leu Ser Ala Pro Gln Thr Phe

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/538,423

DATE: 02/21/2006  
TIME: 12:55:10

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\02212006\J538423.raw

152 340 345 350  
154 Arg Ser Lys Glu Ile Ser Lys Ser Asn Val Val Asp Asp Met Val Ser  
155 355 360 365  
157 Ser Asn Ala Ile Leu Tyr Glu Leu Gly Glu His Pro Asp His Val Val  
158 370 375 380  
160 Val Ile Lys Tyr Val Pro Tyr Val Gly Asp Ser Lys Arg Ala Met Asp  
161 385 390 395 400  
163 Glu Tyr Thr Ser Glu Ile Phe Met Gly Gly Lys Ser Thr Ile Val Leu  
164 405 410 415  
166 His Asn Thr Cys Glu Asp Ser Leu Leu Ala Ala Pro Ile Ile Leu Asp  
167 420 425 430  
169 Leu Val Leu Leu Ala Glu Leu Ser Thr Arg Ile Gln Leu Lys Ala Glu  
170 435 440 445  
172 Gly Glu Lys Phe His Ser Phe His Pro Val Ala Thr Ile Leu Ser  
173 450 455 460  
175 Tyr Leu Thr Lys Ala Pro Leu Val Pro Pro Gly Thr Pro Val Val Asn  
176 465 470 475 480  
178 Ala Leu Ala Lys Gln Arg Ala Met Leu Glu Asn Ile Met Arg Ala Cys  
179 485 490 495  
181 Val Gly Leu Ala Pro Glu Asn Asn Met Ile Leu Glu Tyr Lys  
182 500 505 510  
184 <210> SEQ ID NO: 3  
185 <211> LENGTH: 512  
186 <212> TYPE: PRT  
187 <213> ORGANISM: Porteresia coarctata  
189 <220> FEATURE:  
191 <400> SEQUENCE: 3  
193 Met Phe Ile Glu Ser Phe Arg Val Glu Ser Pro His Val Arg Tyr Gly  
194 5 10 15  
196 Ala Ala Glu Ile Glu Ser Glu Tyr Arg Tyr Asp Thr Thr Glu Leu Val  
197 20 25 30  
199 His Glu Ser His Asp Gly Ala Ser Arg Tyr Val Val Arg Pro Lys Ser  
200 35 40 45  
202 Val Gln Tyr His Phe Arg Thr Ser Thr Thr Val Pro Lys Leu Gly Val  
203 50 55 60  
205 Met Leu Val Gly Tyr Gly Gly Asn Asn Gly Ser Thr Leu Thr Ala Gly  
206 65 70 75 80  
208 Val Ile Ala Ser Arg Glu Gly Ile Ser Trp Ala Thr Lys Asp Lys Val  
209 85 90 95  
211 Gln Gln Ala Asn Tyr Tyr Gly Ser Leu Thr Gln Ala Ser Thr Ile Arg  
212 100 105 110  
214 Val Gly Ser Tyr Asn Gly Glu Glu Ile Tyr Ala Pro Phe Lys Ser Leu  
215 115 120 125  
217 Leu Pro Met Val Asn Pro Asp Asp Leu Val Phe Gly Gly Trp Asp Ile  
218 130 135 140  
220 Ser Asn Met Asn Leu Ala Asp Ala Met Thr Arg Ala Lys Val Leu Asp  
221 145 150 155 160  
223 Ile Asp Leu Gln Lys Gln Leu Arg Pro Tyr Met Glu Ser Trp Cys Leu  
224 165 170 175

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/538,423

DATE: 02/21/2006  
TIME: 12:55:10

Input Set : A:\PTO.KD.txt  
Output Set: N:\CRF4\02212006\J538423.raw

226 Ser Leu Ala Ser Met Ile Pro Thr Ser Ser Pro Leu Thr Arg Asp Pro  
227 180 185 190  
229 Ala Arg Thr Met Ser Ser Arg Glu Pro Arg Arg Ser Arg Trp Gly Arg  
230 195 200 205  
232 Ser Ser Lys Asp Ile Arg Glu Phe Lys Glu Asn Asn Lys Met Asp Lys  
233 210 215 220  
235 Ala Val Val Leu Trp Thr Ala Asn Thr Glu Arg Tyr Asn Asn Cys Leu  
236 225 230 235 240  
238 Cys Leu Gly Leu Met Thr Asn Gly Lys Pro Ser Ala Ser Val Asp Arg  
239 245 250 255  
241 Asn Gln Ala Glu Ile Ser Pro Ser Thr Leu Tyr Cys His Cys Leu Ala  
242 260 265 270  
244 Ser Leu Glu Gly Val Arg Ser Ile Thr Gly Ala Leu Lys Lys Lys Ser  
245 275 280 285  
247 Trp Pro Gly Ile Asp Asp Leu Ala Ile Lys Lys Lys Leu Pro Asp Pro  
248 290 295 300  
250 Gly Gly Leu Ile Gln Lys Arg Gly Lys Pro Lys Lys Lys Thr Gly Leu  
251 305 310 315 320  
253 Val Asp Phe Leu Met Gly Ala Gly Ile Lys Pro Thr Ser Ile Val Ser  
254 325 330 335  
256 Tyr Asn His Leu Gly Asn Asn Asp Gly Met Asn Leu Ser Ala Pro Gln  
257 340 345 350  
259 Thr Phe Arg Ser Lys Glu Ile Ser Lys Ser Ser Val Val Asp Asp Met  
260 355 360 365  
262 Val Ser Ser Asn Ala Ile Leu Tyr Glu Leu Gly Glu His Pro Asp His  
263 370 375 380  
265 Val Val Val Ile Lys Tyr Val Pro Tyr Val Gly Asp Ser Lys Arg Ala  
266 385 390 395 400  
268 Met Asp Glu Tyr Thr Ser Glu Ile Phe Met Gly Lys Asn Thr Ile  
269 405 410 415  
271 Val Leu His Asn Thr Cys Glu Asp Ser Leu Leu Ala Ala Pro Ile Ile  
272 420 425 430  
274 Leu Asp Leu Val Leu Leu Ala Glu Leu Ser Thr Arg Ile Gln Leu Lys  
275 435 440 445  
277 Gly Glu Gly Glu Glu Lys Phe His Ser Phe His Pro Val Ala Thr Ile  
278 450 455 460  
280 Leu Ser Tyr Leu Thr Lys Ala Pro Leu Val Pro Pro Gly Thr Pro Val  
281 465 470 475 480  
283 Val Asn Ala Leu Ala Lys Gln Arg Ala Met Leu Glu Asn Ile Met Arg  
284 485 490 495  
287 Ala Cys Val Gly Leu Ala Pro Glu Asn Asn Met Ile Leu Glu Tyr Lys  
288 500 505 510

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/538,423

DATE: 02/21/2006

TIME: 12:55:11

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\02212006\J538423.raw